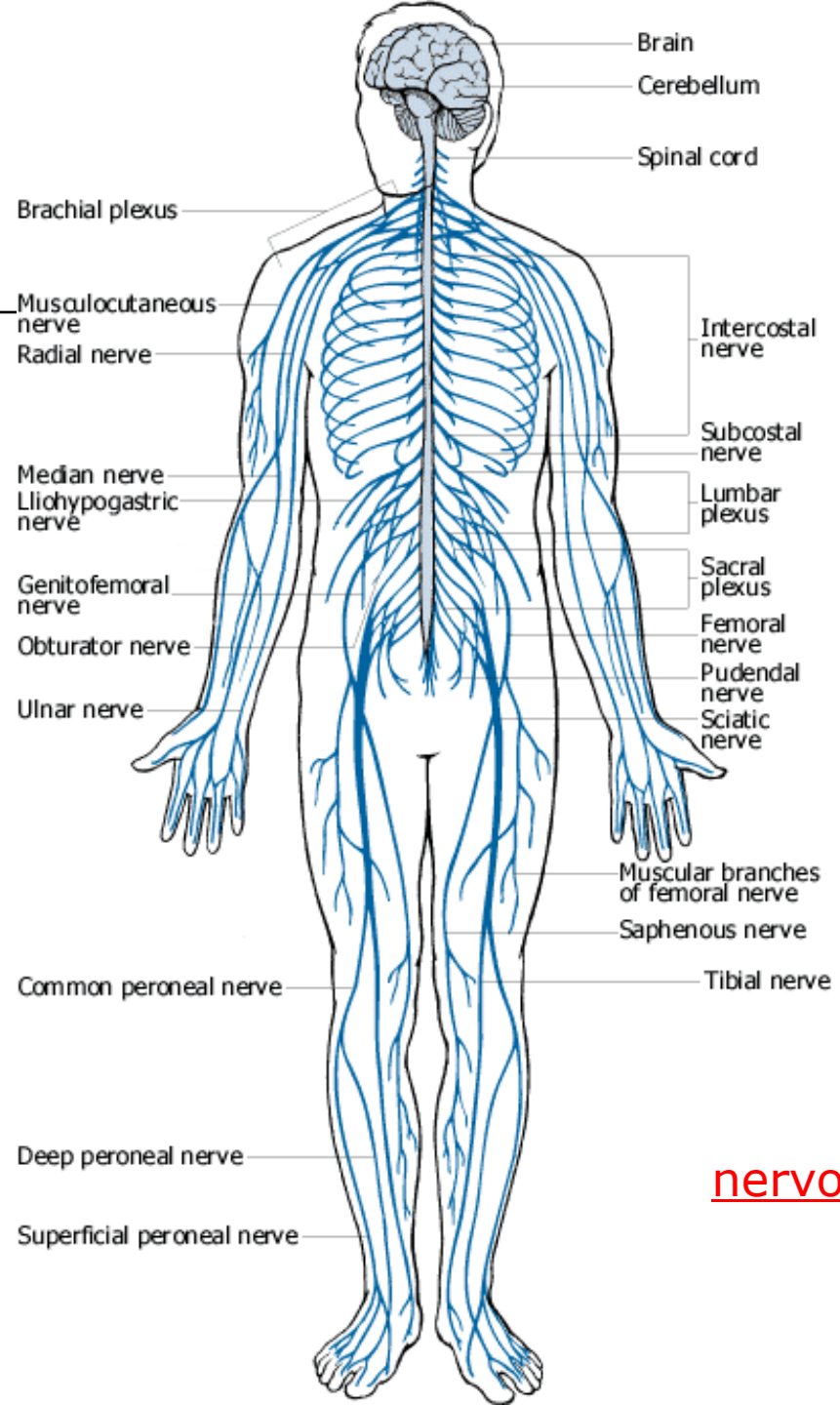
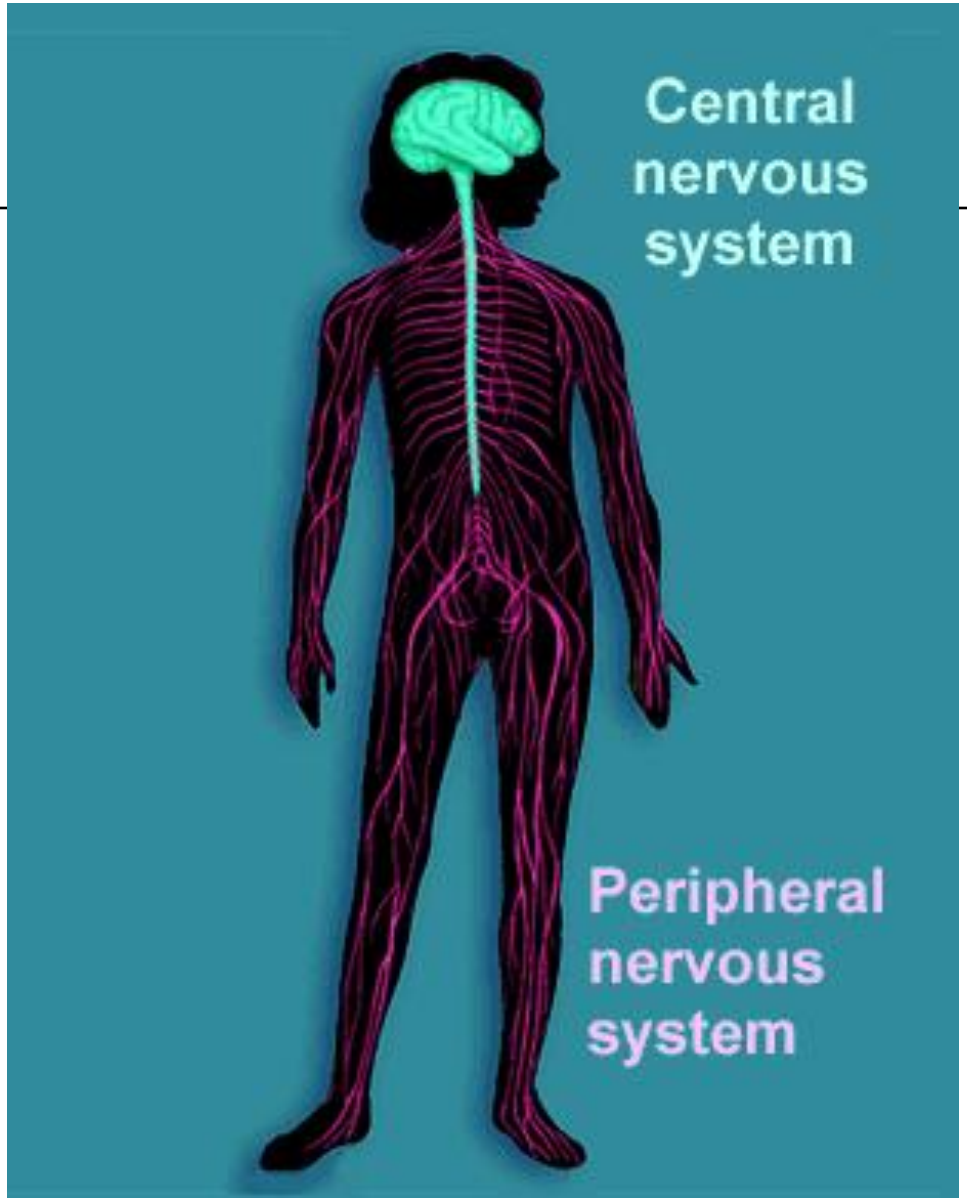
Nervous System

By the end of the lesson you should be able to

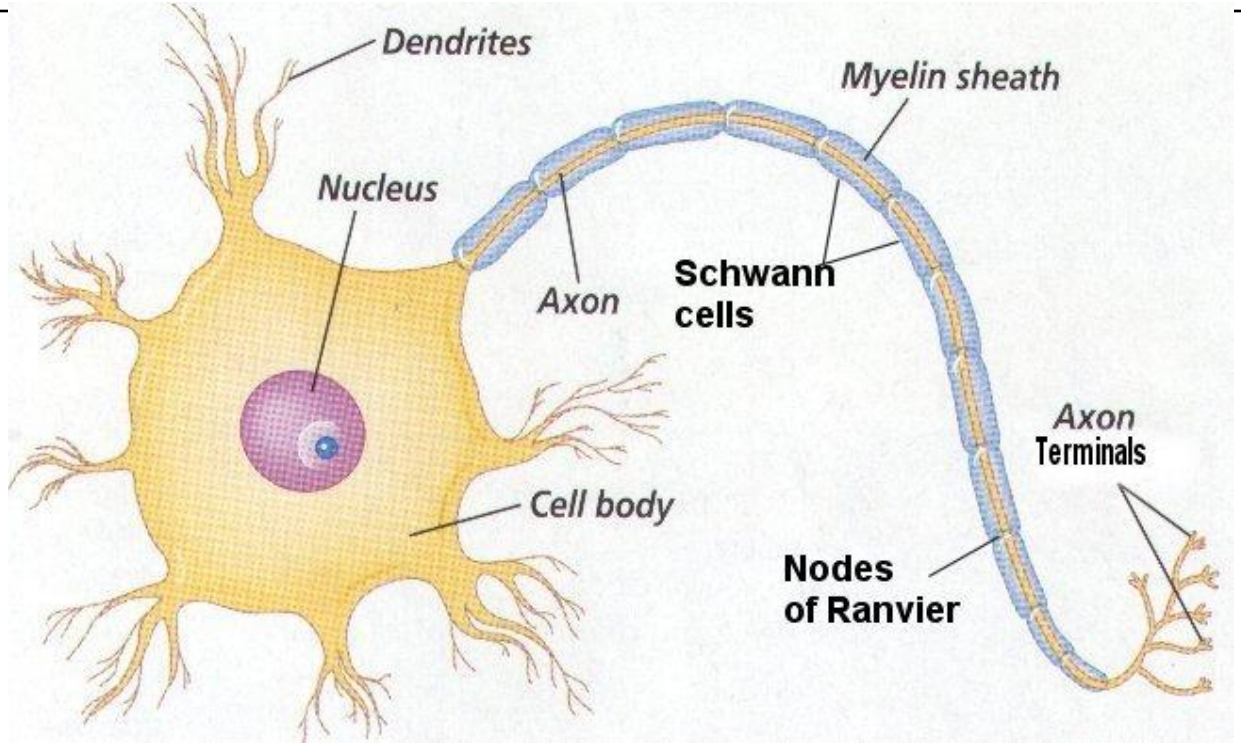
- Describe the transmission of impulses from senses to central nervous system and back to muscles.
- Describe the reflex action and the pathway of the reflex arc.
- Describe the function of reflex response.
- Describe the role of the central nervous system.



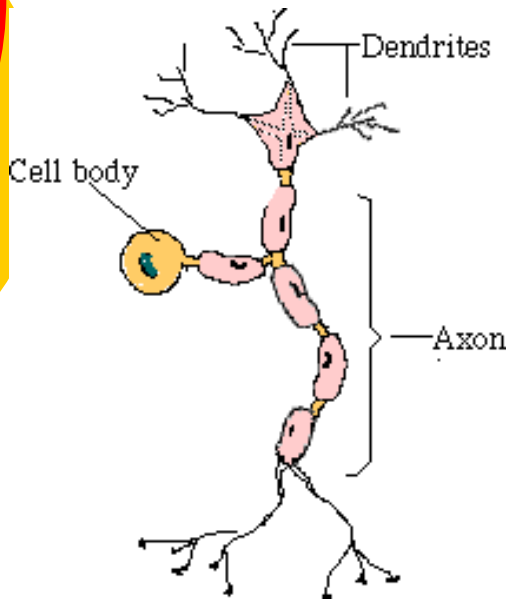
nervous system


Central
nervous
system
Peripheral
nervous
system

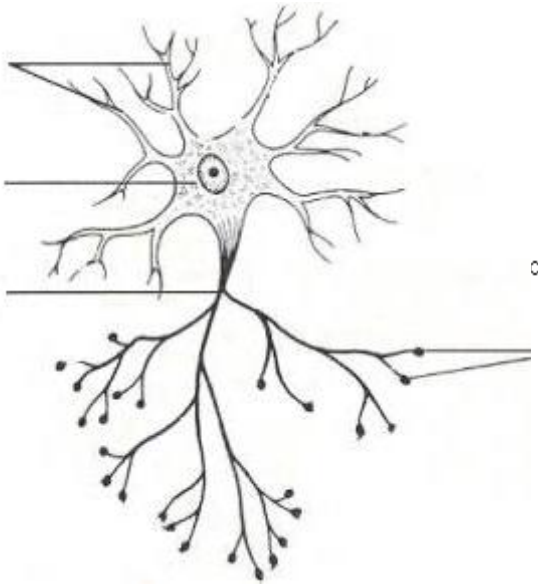
Basic nerve cell structure



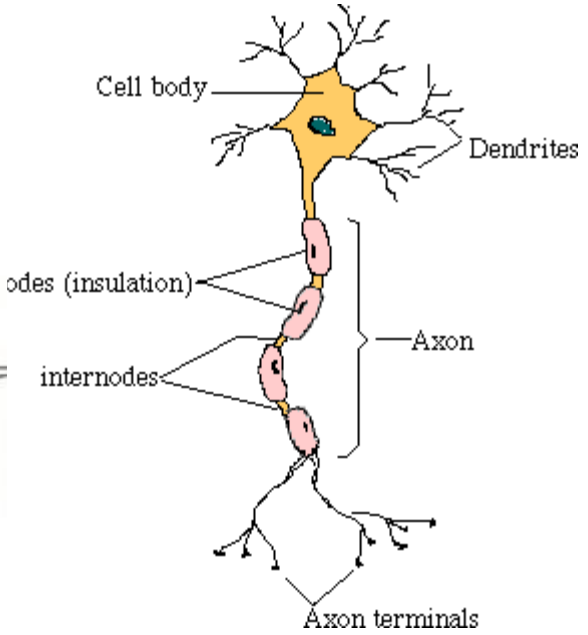
3 main types of nerve cells



sensory neurone

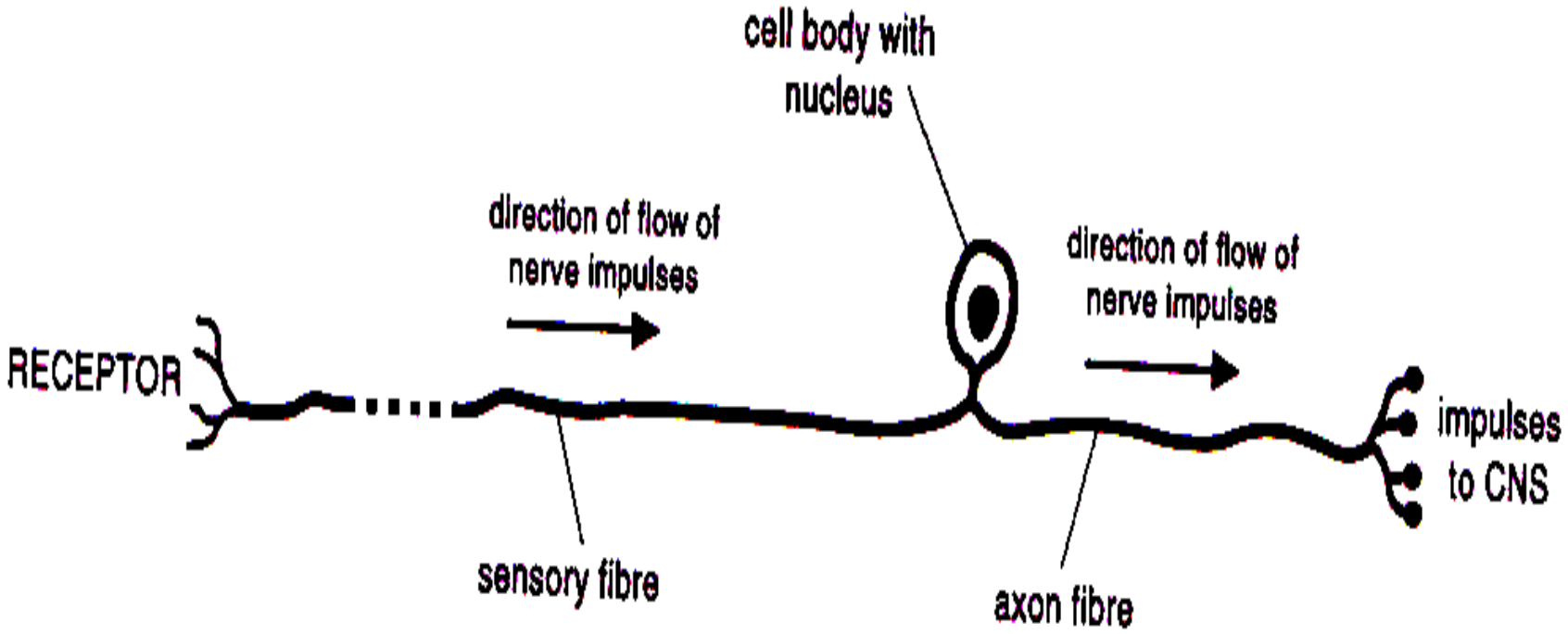


relay neurone



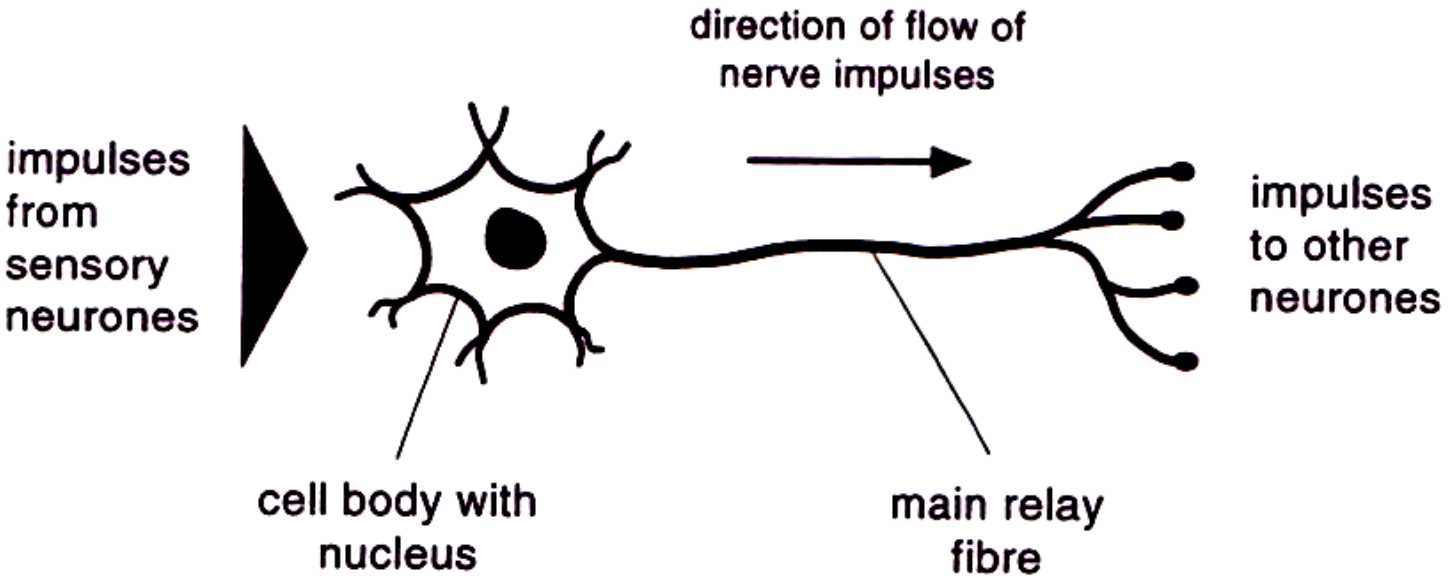
motor neurone

Sensory neurons



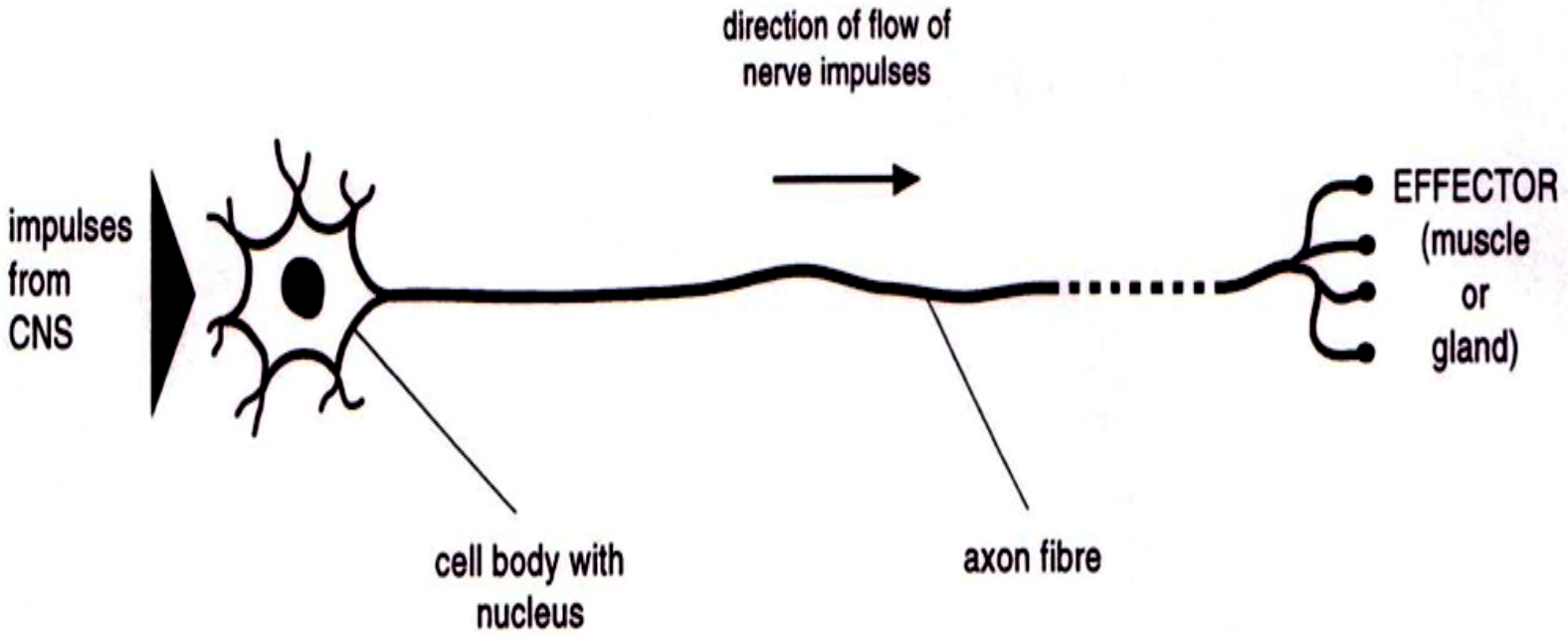
Carries impulses from receptors e.g pain receptors in skin to the CNS(brain or spinal cord)

Relay neuron


direction of flow of nerve impulses
impulses from sensory neurones
impulses to other neurones
cell body with nucleus
main relay fibre

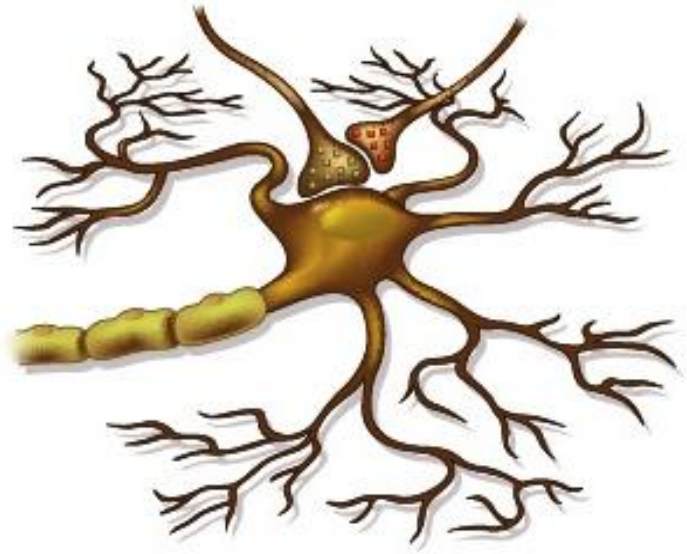
Carries impulses from sensory nerves to motor nerves.

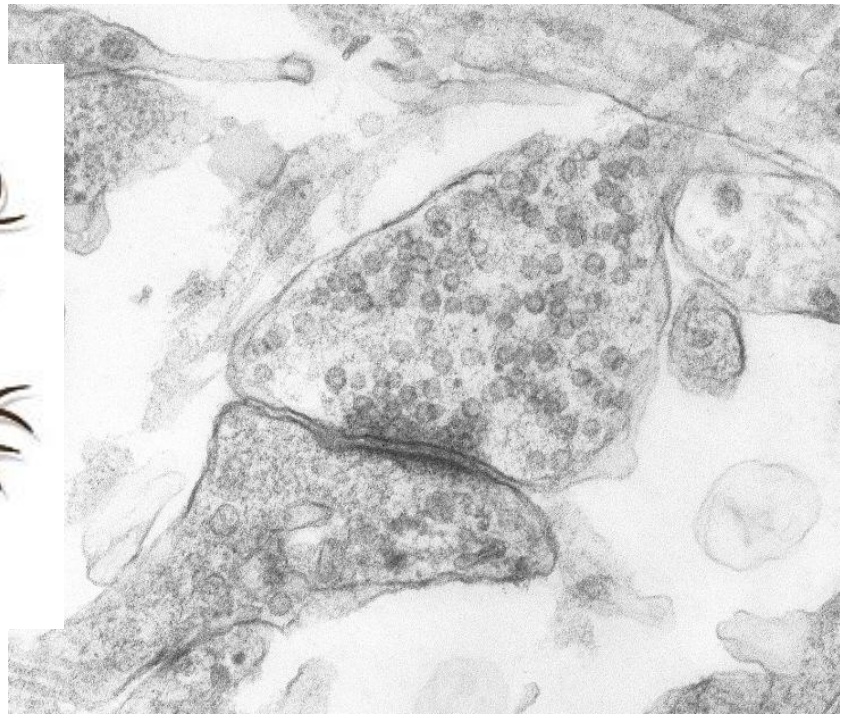
Motor neuron



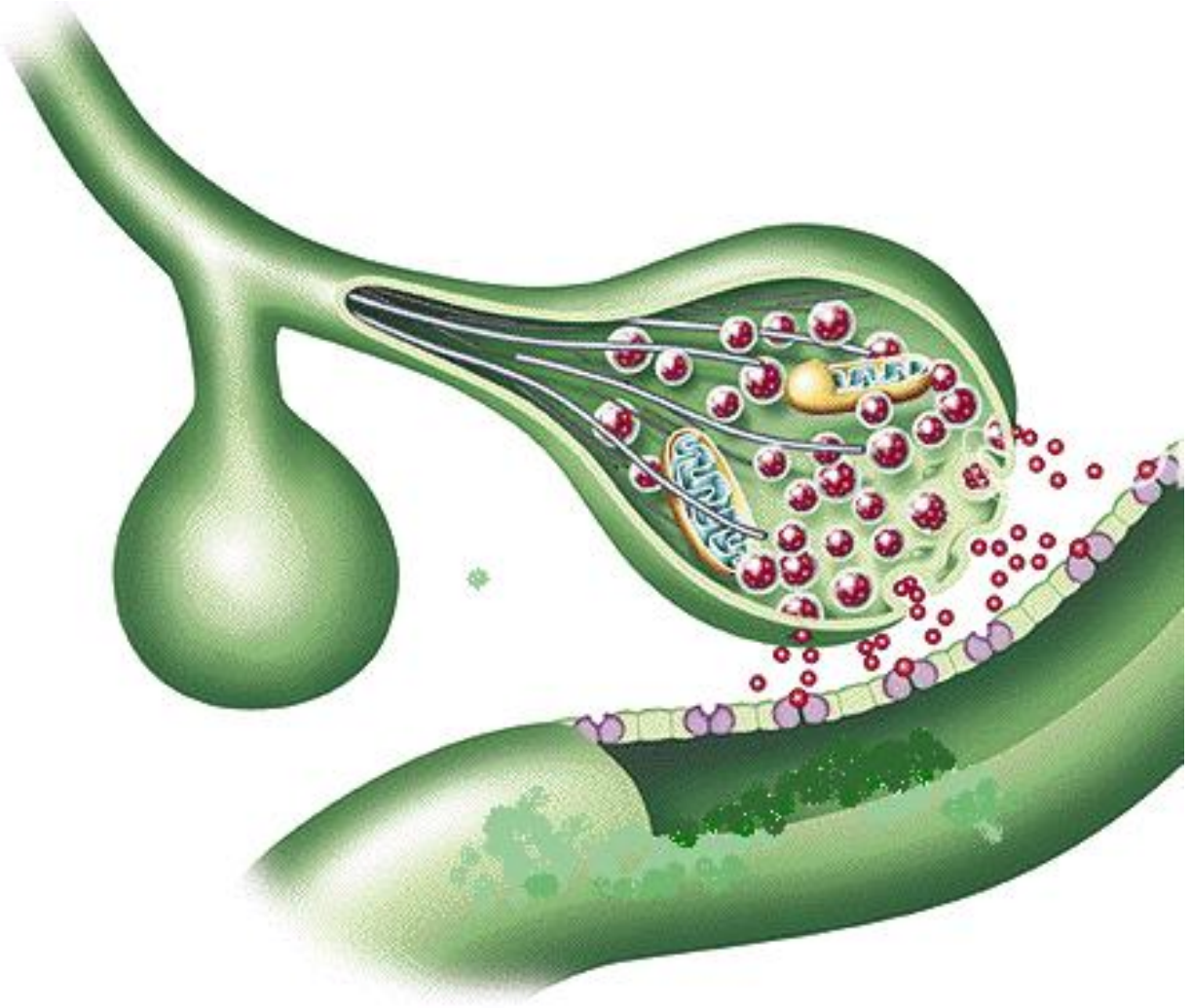
Carries impulses from CNS to effector e.g. muscle to bring about movement or gland to bring about secretion of hormone e.g ADH

Transmission of signals





The Synapse



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